



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Makoto TANIGUCHI

Application No.: 09/736,251

Filed: December 15, 2000

For: CONTROL DEVICE FOR VEHICULAR AC GENERATOR, AND CONNECTOR

Group Art Unit: 2834

Examiner: P. Cuevas

Docket No.: 111275

#7/Revooca.
P/a
Hawkins
2/22/02

SUBMISSION OF POWER OF ATTORNEY BY ASSIGNEE

Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

Sir:

Enclosed is a Power of Attorney by Assignee to be made of record in the above-identified application.

In the event of any nonpayment or improper payment of a required fee, the Director is authorized to charge or to credit OLIFF & BERRIDGE, PLC Deposit Account No. 15-0461 as required to correct the error.

Respectfully submitted,

James A. Oliff
Registration No. 27,075

Thomas J. Pardini
Registration No. 30,411

JAO:TJP/kaw

Date: January 30, 2002

OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320
Telephone: (703) 836-6400

**DEPOSIT ACCOUNT USE
AUTHORIZATION**
Please grant any extension
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PATENT APPLICATION

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POWER OF ATTORNEY BY ASSIGNEE

Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

Sir:

Denso Corporation is the Assignee of the entire right, title and interest in the patent applications identified in the attached Appendix A by virtue of Assignments recorded at the locations identified in the Appendix. Additionally, Denso Corporation is the Assignee of the entire right, title and interest in the following three patent applications for which Assignments have been filed, but the original Assignments, indicating the dates and reel and frame numbers of recordation, have not yet been returned.:

<u>U.S. Patent Application No.</u>	<u>Filed</u>	<u>Inventors</u>
09/891,222	June 26, 2001	Keiji TAKAHASHI et al.
09/925,373	August 10, 2001	Naoki YAMAMOTO et al.
09/893,417	June 29, 2001	Makoto TANIGUCHI et al.

Copies of the Recordation Cover Sheets and executed Assignments as filed for these applications are attached hereto.

The undersigned is authorized to act on behalf of Denso Corporation; has reviewed the evidentiary documents in the chain of title; and certifies that to the best of the Assignee's knowledge and belief, title is in the Assignee.

Denso Corporation hereby revokes all prior powers of attorney and appoints the following as attorneys of record with full power of substitution and revocation to prosecute this application and all continuations and divisions thereof, and to transact all business in the Patent and Trademark Office:

James A. Oliff, Registration No. 27,075;
William P. Berridge, Registration No. 30,024;
Kirk M. Hudson, Registration No. 27,562;
Thomas J. Pardini, Registration No. 30,411;
Edward P. Walker, Registration No. 31,450;
Robert A. Miller, Registration No. 32,771;
Mario A. Costantino, Registration No. 33,565;
Stephen J. Roe, Registration No. 34,463;
Joel S. Armstrong, Registration No. 36,430;
Christopher W. Brown, Registration No. 38,025;
Richard E. Rice, Registration No. 31,560; and
Paul Tsou, Registration No. 37,956.

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ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION
SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, P.O. BOX 19928, ALEXANDRIA,
VIRGINIA 22320. TELEPHONE: (703) 836-6400.

Jan. 30, 2002
Date

Masashi Kamiya
Signature

Typed Name: Masashi Kamiya


Title: General Manager



APPENDIX A

<u>U.S. Patent Application Serial No.</u>	<u>Filed</u>	<u>Oliff & Berridge, PLC Docket No.</u>	<u>Reel/Frame No.</u>
09/736,251	December 15, 2000	111275	011366/0518
09/576,631	May 24, 2000	111338	010823/0867
09/620,906	July 20, 2000	111339	010954/0395
09/740,038	December 20, 2000	111340	011711/0918
09/742,292	December 22, 2000	111341	011654/0986
09/466,477	December 17, 1999	111347	010468/0948

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TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS: SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.					
1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):					
1. Keiji TAKAHASHI			2. Toshinori MARUYAMA		
3. Makoto TANIGUCHI			4.		
5.			6.		
7.			8.		
ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					
2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:					
NAME: DENSO CORPORATION					
ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8881 Japan					
ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					
3. NATURE OF CONVEYANCE (DOCUMENT):					
(Submit herewith <u>only one document</u> for recordation—multiple copies of same Assignment signed by different inventors is one document)					
<input checked="" type="checkbox"/> ASSIGNMENT OF		<input checked="" type="checkbox"/> WHOLE <input type="checkbox"/> PART INTEREST		EXEC. DATE: June 29, 2001	
<input checked="" type="checkbox"/> ORIGINAL		<input type="checkbox"/> FACSIMILE/PHOTOCOPY			
<input type="checkbox"/> CHANGE OF NAME		<input type="checkbox"/> VERIFIED TRANSLATION			
<input type="checkbox"/> SECURITY <input type="checkbox"/> MERGER		<input type="checkbox"/> OTHER:			
EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY) June 29, 2001					
4.5 APPL NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					
A. PAT. APP. NO.(S)		B. PATENT NO(S)		C. INVENTOR	
series code/serial no.		if not in item 1		if not in item 1	
09/891,222		281490			
5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:			6. NUMBER INVOLVED:		
Pillsbury Winthrop LLP			APPLNS 1 + PATS 0 = TOTAL = 1		
Intellectual Property Group			7. AMOUNT OF FEE ENCLOSED: (Code 581)		
1800 Tysons Boulevard			ABOVE TOTAL x \$40 = \$40		
McLean, VA 22102			8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE		
6.5 ATTY DKT: Tel: (703) 905-2000			INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975		
P 281490		60303-US-SUS		UNDER ORDER NO	
MATTER NO.		CLIENT REF.		30954 281490	
				dup. sheet not required CLIENT NO. MATTER NO.	
9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.					
 Signature				10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)	
Attorney: Paul T. Bowen Reg. No. 38009 Atty/Sec: PTB/vaw				Date: October 29, 2001 FAX: (703) 905-2500	
TEL: (703) 905-2020					

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Atty. Dkt. PW

60303-US-
SuS/nh

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Client Ref.

NONPROVISIONAL

ASSIGNMENT
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT
NAME(S) OF
INVENTOR(S)

(1) Keiji TAKAHASHI	(2) Toshinori MARUYAMA
(3) Makoto TANIGUCHI	(4)
(5)	<input type="checkbox"/> x box If continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT
NAME(S) OF
ASSIGNEE(S)
& ADDRESS(ES)

DENSO CORPORATION
1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF
INVENTION

VOLTAGE REGULATOR OF VEHICLE AC GENERATOR

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → →
(Complete

line A, B and/or C)

(A) ☒ even date herewith

(B) ☐ on

(C) ☐ In U.S. Appln. No. 1 filed

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert herein any further identification necessary or desirable for recordation of this document.

INVENTORS


1): Keiji Takahashi
Name: Keiji TAKAHASHI
2) Toshinori Maruyama
Name: Toshinori MARUYAMA
3) Makoto Taniguchi
Name: Makoto TANIGUCHI
4)
Name:
5)
Name:

DATE SIGNED

June, 29, 2001
June 29, 2001
June, 29, 2001

WITNESSES

Hiroshi Ishida
Hiroshi Ishida
Hiroshi Ishida

RECORDATION COVER SHEET PATENT APPLICATIONS - PATENTS ONLY												
TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS: SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.												
1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):												
1. Naoki YAMAMOTO		2. Makoto TANIGUCHI										
3. Hitoshi IRIE		4.										
5.		6.										
7.		8.										
ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO												
2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:												
NAME: DENSO CORPORATION												
ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan												
ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO												
3. NATURE OF CONVEYANCE (DOCUMENT): (Submit herewith <u>only one document</u> for recordation—multiple copies of same Assignment signed by different inventors is one document)												
<input checked="" type="checkbox"/> ASSIGNMENT OF		<input checked="" type="checkbox"/> WHOLE <input type="checkbox"/> PART INTEREST		EXEC. DATE: August 6, 2001								
<input checked="" type="checkbox"/> ORIGINAL		<input type="checkbox"/> FACSIMILE/PHOTOCOPY										
<input type="checkbox"/> CHANGE OF NAME		<input type="checkbox"/> VERIFIED TRANSLATION										
<input type="checkbox"/> SECURITY <input type="checkbox"/> MERGER		<input type="checkbox"/> OTHER:										
EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY) August 6, 2001												
4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO												
<table border="1"> <thead> <tr> <th>APPL. NO. (S)</th> <th>INVENTOR</th> <th>PAT. NO. (S)</th> <th>INVENTOR</th> </tr> </thead> <tbody> <tr> <td>09/925,373</td> <td>282781</td> <td></td> <td></td> </tr> </tbody> </table>					APPL. NO. (S)	INVENTOR	PAT. NO. (S)	INVENTOR	09/925,373	282781		
APPL. NO. (S)	INVENTOR	PAT. NO. (S)	INVENTOR									
09/925,373	282781											
5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed: Pillsbury Winthrop LLP Intellectual Property Group 1800 Tysons Boulevard McLean, VA 22102 5.5 ATTY DKT: Tel: (703) 905-2000 P 282781		6. NUMBER INVOLVED: APPLS 1 + PATS 0 = TOTAL = 1										
		7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40										
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P 282781		UNDER ORDER NO 30954 282781										
MATTER NO.		CLIENT REF.										
		dup. sheet not required CLIENT NO. MATTER NO.										
9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.												
 Signature				10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)								
				2								
Attorney: Paul T. Bowen Reg. No. 38009 Atty/Sec: PTB/vaw Date: October 29, 2001 TEL: (703) 905-2020 FAX: (703) 905-2500												

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M# Client Ref.

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NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT NAME(S) OF INVENTOR(S)	(1) Naoki YAMAMOTO (3) Htoshi IRIE (5)	(2) Makoto TANIGUCHI (4) <input type="checkbox"/> x box if continued on page 2
-------------------------------------	----------------------------------------------	--------------------------------------------------------------------------------------

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT NAME(S) OF ASSIGNEE(S) & ADDRESS(ES)	DENSO CORPORATION 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan
------------------------------------------------------	-------------------------------------------------------------------------------

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof, and all resulting patents, known as

TITLE OF INVENTION	VOLTAGE CONTROL APPARATUS FOR VEHICLE AC GENERATOR
-----------------------	----------------------------------------------------

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → → (A) ☒ even date herewith
(Complete) (B) ☐ on _____
line A, B and/or C (C) ☐ in U.S. Appl. No. _____ / _____ filed _____


AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

	INVENTORS	DATE SIGNED	WITNESSES
1):	<i>Naoki Yamamoto</i>	<i>August 6, 2001</i>	<i>Hiroshi Nakada</i>
Name:	Naoki YAMAMOTO		
2):	<i>Makoto Taniguchi</i>	<i>August 6, 2001</i>	<i>Hiroshi Nakada</i>
Name:	Makoto TANIGUCHI		
3):	<i>Htoshi Irie</i>	<i>August 6, 2001</i>	<i>Hiroshi Nakada</i>
Name:	Htoshi IRIE		
4):			
Name:			
5):			
Name:			

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1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)): 1. Makoto TANIGUCHI 2. Toshinori MARUYAMA 3. 4. 5. 6. 7.	2. Keiji TAKAHASHI 3. 4. 5. 6. 7.
ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST: NAME: DENSO CORPORATION ADDRESS: 1-1 Showa-cho, Kariya-city, Aichi-pref., 448-8681 JAPAN ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
3. NATURE OF CONVEYANCE (DOCUMENT): (Submit herewith <u>only one document</u> for recordation—multiple copies of same Assignment signed by different inventors is one document) <input checked="" type="checkbox"/> ASSIGNMENT OF <input checked="" type="checkbox"/> WHOLE <input type="checkbox"/> PART INTEREST <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> FACSIMILE/PHOTOCOPY <input type="checkbox"/> CHANGE OF NAME <input type="checkbox"/> VERIFIED TRANSLATION <input type="checkbox"/> SECURITY <input type="checkbox"/> MERGER <input type="checkbox"/> OTHER: EXEC. DATE: June 28, 2001	
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4. 5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
A. PAT. APP. NO.(S) NEW APPLICATION 0281518	B. PATENT NO.(S) If not in Box 1
5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed: Pittsbury Winthrop LLP Intellectual Property Group 1600 Tysons Boulevard McLean, VA 22102 5.5 ATTY DKT: P 0281518 MATTER NO.	6. NUMBER INVOLVED: APPLNS 1 + PATS 0 = TOTAL 1 7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40 8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975 UNDER ORDER NO 030954 0281518 dup sheet not required CLIENT NO MATTER NO.
9.  Signature Attorney: Paul T. Bowen Reg. No. 38009 Atty/Sec: PTB/tal Date: July 6, 2001 FAX: (703) 905-2500 TEL: (703) 905-2020	
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Atty. Dkt. PW

56759-US-SN/mo

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Client Ref.

NONPROVISIONAL

ASSIGNMENT
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NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT
NAME(S) OF
INVENTOR(S)

(1) Makoto TANIGUCHI	(2) Tomoya OKUNO
(3) Koji TANAKA	(4)
(5)	<input type="checkbox"/> x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT
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ASSIGNEE(S)
& ADDRESS(ES)

DENSO CORPORATION
1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan

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TITLE OF
INVENTION

VEHICLE ALTERNATOR

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → →

(Complete

line A, B and/or C)

(A) ☒ even date herewith

(B) ☐ on

(C) ☐ In U.S. Appl. No. 1 filed

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS

DATE SIGNED

WITNESSES

1): Name:	<u>Makoto Taniguchi</u> Makoto TANIGUCHI	<u>June 20, 2001</u>	<u>Hiroshi Ushida</u>
2): Name:	<u>Tomoya Okuno</u> Tomoya OKUNO	<u>June 20, 2001</u>	<u>Hiroshi Ushida</u>
3): Name:	<u>Koji Tanaka</u> Koji TANAKA	<u>June 21, 2001</u>	<u>Hiroshi Ushida</u>